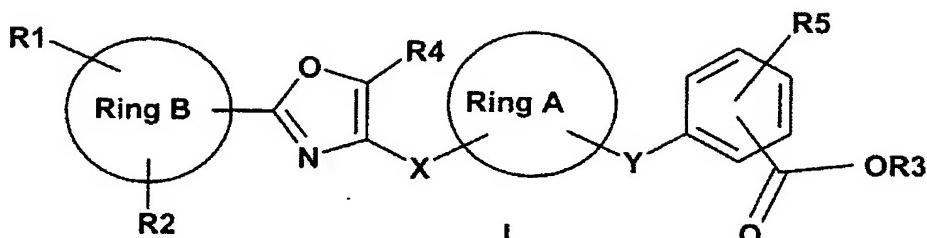


We claim:

DEAV2003/0017

Dr. WI

1. A compound of the formula I



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wherein

- 10 Ring A is (C_3-C_8)-cycloalkanediyl or (C_3-C_8)-cycloalkenediyl, wherein one or more carbon atoms in said (C_3-C_8)-cycloalkanediyl and (C_3-C_8)-cycloalkenediyl groups is optionally replaced by oxygen atoms;
- 15 Ring B is a) phenyl; or
 b) (C_3-C_8)-cycloalkyl, an 8-, 9-, 10-, 11-, 12-, 13- or 14-membered aromatic ring, or a 5-, 6-, 7-, 8-, 9-, 10-, 11- or 12-membered heteroaromatic ring optionally containing one, two, three or four heteroatoms selected from the group consisting of N, O and S;
- 20 R1 is a) in the case where ring B is selected from a) above:
 SCF₃, OCF₂-CHF₂, O-phenyl or O-(C_1-C_6)-alkyl-O-(C_1-C_3)-alkyl;
 b) in the case where ring B is selected from b) above:
 H, F, Cl, Br, OH, NO₂, CF₃, OCF₃, OCF₂-CF₃, SCF₃, OCF₂-CHF₂, O-phenyl, (C_1-C_6)-alkyl, O-(C_1-C_6)-alkyl or O-(C_1-C_6)-alkyl-O-(C_1-C_3)-alkyl;
- 25 c) in the case ring B is selected from a) above and R4 is phenyl:
 (C_1-C_6)-alkyl or O-(C_1-C_6)-alkyl;
- 30 R2 is H or CF₃;

- R4 is a) in the case where ring B is selected from a) above:
 phenyl;
- 5 b) in the case where ring B is selected from b) above:
 H, F, Cl, Br, OH, NO₂, CF₃, OCF₃, (C₁-C₆)-alkyl or O-(C₁-C₆)-alkyl;
- c) in the case ring B is selected from a) above and R1 is
 selected from a) above:
 (C₁-C₆)-alkyl;
- 10 R5 is H, F, Cl, Br, OH, NO₂, CF₃, OCF₃, (C₁-C₆)-alkyl or O-(C₁-C₆)-alkyl;
- R3 is H or (C₁-C₆)-alkyl;
- 15 X is (C₁-C₆)-alkanediyl, wherein one or more carbon atoms in said (C₁-C₆)-alkanediyl group are optionally replaced by oxygen atoms;
- Y is (C₁-C₆)-alkanediyl, wherein one or more carbon atoms in said (C₁-C₆)-alkanediyl group are optionally replaced by oxygen atoms;
- 20 and pharmaceutically acceptable salts thereof.
2. The compound of Claim I wherein:
- 25 Ring A is (C₃-C₈)-cycloalkanediyl or (C₃-C₈)-cycloalkenediyl, wherein one or more carbon atoms in said (C₃-C₈)-cycloalkanediyl and (C₃-C₈)-cycloalkenediyl groups are optionally replaced by oxygen atoms;
- 30 Ring B is a) phenyl; or
- b) (C₃-C₈)-cycloalkyl, an 8-, 9-, 10, 11-, 12-, 13- or 14-membered aromatic ring, or a 5-, 6-, 7-, 8-, 9-, 10-, 11- or 12-membered heteroaromatic ring optionally containing one, two, three or four heteroatoms selected from the group consisting of N, O and S;
- 35 R1 is a) in the case where ring B is selected from a) above:
 SCF₃, OCF₂-CHF₂, O-phenyl or O-(C₁-C₆)-alkyl-O-(C₁-C₃)-alkyl;
- 40 b) in the case where ring B is selected from b) above:

H, F, Cl, Br, OH, NO₂, CF₃, OCF₃, OCF₂-CF₃, SCF₃, OCF₂-CHF₂, O-phenyl, (C₁-C₆)-alkyl, O-(C₁-C₆)-alkyl or O-(C₁-C₆)-alkyl-O-(C₁-C₃)-alkyl;

5 c) in the case where ring B is selected from a) above and R4 is phenyl:
 (C₁-C₆)-alkyl or O-(C₁-C₆)-alkyl;

10 R is H or CF₃;

15 R4 is a) in the case where ring B is selected from a) above:
 phenyl;

15 b) in the case where ring B is selected from b) above:
 H, F, Cl, Br, OH, NO₂, CF₃, OCF₃, (C₁-C₆)-alkyl or O-(C₁-C₆)-alkyl;

20 c) in the case where ring B is selected from a) above and R1 is selected from a) above:
 (C₁-C₆)-alkyl;

20 R5 is H, F, Cl, Br, OH, NO₂, CF₃, OCF₃, (C₁-C₆)-alkyl or O-(C₁-C₆)-alkyl;

25 R3 is H or (C₁-C₆)-alkyl;

25 X is CH₂-O;

25 Y is (C₁-C₆)-alkanediyl, wherein one or more carbon atoms in said (C₁-C₆)-alkanediyl group are optionally replaced by oxygen atoms.

30 3. The compound of Claim 2 wherein:

30 Ring A is (C₃-C₈)-cycloalkanediyl wherein one carbon atom therein is optionally replaced by an oxygen atom;

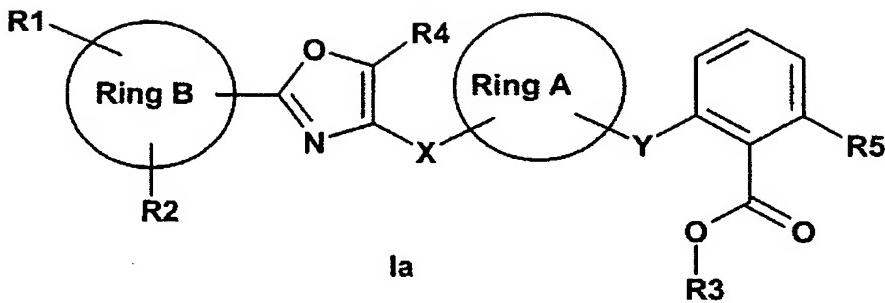
35 Ring B is a) phenyl; or

35 b) (C₃-C₈)-cycloalkyl, an 8-, 9-, 10-, 11-, 12-, 13- or 14-membered aromatic ring, or a 5-, 6-, 7-, 8-, 9-, 10-, 11- or 12-membered heteroaromatic ring optionally containing one, two, three or four heteroatoms selected from the group consisting of N, O and

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S;

- R1 is a) in the case where ring B is selected from a) above:
SCF₃, OCF₂-CHF₂, O-phenyl or O-(C₁-C₆)-alkyl-O-(C₁-C₃)-alkyl;
5 b) in the case where ring B is selected from b) above:
H, F, Cl, Br, OH, NO₂, CF₃, OCF₃, OCF₂-CF₃, SCF₃, OCF₂-CHF₂,
O-phenyl, (C₁-C₆)-alkyl, O-(C₁-C₆)-alkyl or O-(C₁-C₆)-alkyl-O-(C₁-C₃)-
alkyl;
10 c) in the case where ring B is selected from a) above and R4 is
phenyl:
(C₁-C₆)-alkyl or O-(C₁-C₆)-alkyl;
- 15 R2 is H or CF₃;
- R4 is a) in the case where ring B is selected from a) above:
phenyl;
20 b) in the case where ring B is selected from b) above:
H, F, Cl, Br, OH, NO₂, CF₃, OCF₃, (C₁-C₆)-alkyl or O-(C₁-C₆)-alkyl;
c) in the case where ring B is selected from a) above and R1 is
selected from a) above:
25 (C₁-C₆)-alkyl;
- R5 is H, F, Cl, Br, OH, NO₂, CF₃, OCF₃, (C₁-C₆)-alkyl or O-(C₁-C₆)-alkyl;
- 30 R3 is H or (C₁-C₆)-alkyl;
- X is CH₂-O;
- Y is CH₂-O.
- 35 4. The compound of Claim 1 which has the formula Ia



wherein ring A, ring B, R1, R2, R3, R4, R5, X and Y are as defined in Claim 1.

5 5. The compound of Claim 4 wherein:

R3 is H; and

R5 is methyl.

10 6. The compound of Claim 5 wherein:

Ring A is (C₅-C₇)-cycloalkanediyl;

15 Ring B is a) phenyl; or

b) (C₃-C₈)-cycloalkyl, an 8-, 9-, 10-, 11-, 12-, 13- or 14-membered aromatic ring, or a 5-, 6-, 7-, 8-, 9-, 10-, 11- or 12-membered heteroaromatic ring optionally containing one, two, three or four heteroatoms selected from the group consisting of N, O and S;

20 R1 is a) in the case where ring B is selected from a) above:
SCF₃, OCF₂-CHF₂, O-phenyl or O-(C₁-C₆)-alkyl-O-(C₁-C₃)-alkyl;

25 b) in the case where ring B is selected from b) above:
H, F, Cl, Br, OH, NO₂, CF₃, OCF₃, OCF₂-CF₃, SCF₃, OCF₂-CHF₂, O-phenyl, (C₁-C₆)-alkyl, O-(C₁-C₆)-alkyl or O-(C₁-C₆)-alkyl-O-(C₁-C₃)-alkyl;

30 c) in the case where ring B is selected from a) above and R4 is phenyl:

(C₁-C₆)-alkyl or O-(C₁-C₆)-alkyl;

R2 is H or CF₃;

- 5 R4 is a) in the case where ring B is selected from a) above:
phenyl;
b) in the case where ring B is selected from b) above:
H, F, Cl, Br, OH, NO₂, CF₃, OCF₃, (C₁-C₆)-alkyl or O-(C₁-C₆)-alkyl;
10 c) in the case where ring B is selected from a) above and R1
selected from a) above:
(C₁-C₆)-alkyl;

15 R5 is methyl;

R3 is H;

X is CH₂-O;

20 Y is CH₂-O.

- 25 7. The compound of Claim 6 wherein the central cycloalkanediyl ring is attached 1,3-cis.
8. A pharmaceutical composition comprising a pharmaceutically acceptable carrier and one or more compounds of Claim 1.
30 9. The pharmaceutical composition of Claim 6 further comprising at least one additional active ingredient.
10. The pharmaceutical composition of Claim 9 wherein said additional active ingredient has favorable effects on metabolic disturbances or disorders.
35 11. The pharmaceutical composition of Claim 9 wherein said additional active ingredient is an antidiabetic.

12. The pharmaceutical composition of Claim 9 wherein said additional active ingredient is a lipid modulator.
13. A method of treating disorders of fatty acid metabolism and glucose utilization comprising administering to a patient in need thereof a therapeutically effective amount of a compound of Claim 1.
14. A method of treating disorders of insulin resistance comprising administering to a patient in need thereof a therapeutically effective amount of a compound of Claim 1.
15. A method of treating diabetes mellitus including the prevention of the sequelae associated therewith comprising administering to a patient in need thereof a therapeutically effective amount of a compound of Claim 1.
16. A method of treating dyslipidemia and sequelae associated therewith comprising administering to a patient in need thereof a therapeutically effective amount of a compound of Claim 1.
- 20 17. A method of treating metabolic syndrome and conditions associated therewith comprising administering to a patient in need thereof a therapeutically effective amount of a compound of Claim 1.
- 25 18. A method of treating disorders of fatty acid metabolism and glucose utilization comprising administering to a patient in need thereof a therapeutically effective amount of a compound of Claim 1 in combination with at least one further active compound.
- 30 19. A method of treating disorders of insulin resistance comprising administering to a patient in need thereof a therapeutically effective amount of a compound of Claim 1 in combination with at least one further active compound.